

Equine Science & Technology – Semester B

Levels: Grades 9-12
Units of Credit: Year (0.5)
CIP Code: 020221
Prerequisite: None

COURSE DESCRIPTION

Students will be exposed to equine science and technology principles which include genetics, anatomy, physiology/nutrition, diseases, pests, and management practices. The scientific processes of observation, measurement, hypothesizing, data gathering, interpretation, analysis, and application are stressed. Career opportunities and educational preparation are examined. Learning activities are varied, with classroom, laboratory, and field experiences emphasized.

CORE STANDARDS, OBJECTIVES, AND INDICATORS

STANDARD

020221-01 Students will develop an understanding of the role of FFA in Agricultural Education Programs.

OBJECTIVES

- 020221-0103 Students will determine FFA degrees, awards, and Career Development Events.
- Students will explain the FFA degree areas.
 - Students will identify the FFA proficiency awards.
 - Students will explain various team and individual Career Development Events.

STANDARD

020221-02 Students will understand the benefits of a Supervised Agricultural Experience (SAE) Program.

OBJECTIVES

- 020221-0205 Students will implement SAE programs.
- Students will discuss the importance of keeping records on an SAE program.
 - Students will explain the types of financial records needed to support a chosen SAE program.
 - Students will identify standards to follow in keeping records on an SAE program.

STANDARD

020221-08 Students will understand horse genetics.

OBJECTIVES

- 020221-0801 Students will explore the fundamentals of genetics.
- 020221-0802 Students will investigate horse coat color and markings.
- 020221-0803 Students will explain the heritability of performance traits.

STANDARD**020221-09 Students will explore horse reproduction and parturition.****OBJECTIVES**

020221-0901 Students will describe the physiology of the reproduction tracts of stallions and mares.

020221-0902 Students will summarize the estrus cycle and proper times to breed.

020221-0903 Students will describe proper horse gestation management.

020221-0904 Students will explore equine reproductive technology.

- Artificial insemination
- Embryo transfer
- Cloning

020221-0905 Students will discuss proper care during pregnancy and parturition.

020221-0906 Students will describe the horse condition scoring system.

STANDARD**020221-10 Students will study and utilize equine behavior training.****OBJECTIVES**

020221-1001 Students will list and discuss horse behavioral categories.

020221-1002 Students will demonstrate safe handling of horses.

020221-1003 Students will explain imprinting.

020221-1004 Students will identify abnormal horse behavior (vices).

020221-1005 Students will discuss how to load and haul a horse and how to check the safety of a trailer.

STANDARD**020221-11 Students will learn about equine facilities and equipment.****OBJECTIVES**

020221-1101 Students will identify, discuss, and describe the usage of Western and English tack.

020221-1102 Students will outline the transportation of horses.

020221-1103 Students will investigate horse facilities and fencing.

020221-1104 Students will discuss waste management.

STANDARD

020221-12 Students will know how to evaluate and select a horse.

OBJECTIVES

020221-1201 Students will summarize the considerations of purchasing a horse.

020221-1202 Students will recognize the ideal horse conformation characteristics.

020221-1203 Students will recognize conformation faults and predict potential unsoundness and/or lameness.

020221-1204 Students will present oral and written reasons in horse evaluation.